

SERVICE BULLETIN

#352

Sun

VAT-40 QUICK CAL. GUIDE

MODEL VAT-40
VOLT-AMP TESTER
QUICK CAL. GUIDE

FOR A " QUICK CAL.CHECK " OF A QUESTIONABLE VAT-40 VOLT-AMP TESTER,
USE A KNOWN GOOD VAT AND A GOOD 12V BATTERY AS A STANDARD.

1. CHECK INT. VOLTS CONNECT VAT-40 AND VAT STANDARD
TO 12V BATTERY.
VAT-40 V. METER SHOULD AGREE WITH
STANDARD $\pm 2\%$ OF FULL SCALE.
IF NOT, ADJ. R43 (VOLT CAL.) TO
AGREE WITH STANDARD.
2. CHECK EXT. VOLTS VAT-40 SHOULD AGREE WITH STEP 1.
3. CHECK VAT-40 B+ V. SHOULD BE $3.25V \pm .05V$ (AT R8 TO GROUND)
IF NOT, ADJ. R9 (B+ ADJ.)
4. CHECK FRONT PANEL
ZERO ADJ. RANGE SHOULD DEFLECT AMP METER A MIN. OF
0-FS LEFT AND 0-FS RIGHT.
IF NOT, ADJ. R37 (ZERO SENSITIVITY)
5. CHECK 100 AMP
SCALE CAL. SET STANDARD TO APPROX. 80 AMPS.
WITH AMP CLAMP OF VAT-40 AROUND LOAD LEAD
VAT-40 AMP METER SHOULD INDICATE SAME
AS STANDARD $\pm 2\%$ OF FULL SCALE.
IF NOT, ADJ. R23 (AMP CAL.)
TO AGREE WITH STANDARD.
6. CHECK 100/500 AMP
METER CORRELATION VAT-40, 500 AMP SCALE (SW. IN #1) SHOULD
INDICATE SAME AMPS AS IN STEP 5. $\pm 2\%$ OF
FULL SCALE.
7. FIELD CIRCUIT
CHECK USE 12V TEST LAMP (SUN #6DD5-D018).
CONNECT ONE END OF TEST LAMP TO FIELD LEAD.
CONNECT OTHER END TO —————
TERMINAL OF BATTERY.
PRESS FIELD SELECTOR SWITCH TO —————
TEST LAMP SHOULD LIGHT.

(TEST)

GRD.
LUG

R37 ZERO
SEN.

R8

R9 B+ ADJ.

R23 AMP
CAL.

R43 VOLT
CAL.

VAT-40 CKT.BD. #7009-1112

NOTE: REFER TO VAT-40 SERVICE MANUAL IF UNABLE TO "QUICK CAL. VAT-40 TESTER".

NOTE: INSERT THIS PAGE IN RELATED SECTION OF SUN REPAIR MANUAL

JD